

ANISIMOV, S.B.; VINETS, Ya.M.; SHIRSHOVA, A.M.

Hydrogen embrittlement of steel springs subjected to pickling.
Av.prom. 26 no.8:62-65 Ag '57. (MIRA 15:4)
(Springs (Mechanism))

Reference

USSR/Chemistry - Synthesis
Chemistry - Glycols
Jan 49

"Synthesis of Dimethylacetylenylphenylethylene-glycol and the Study of Its Interaction With Sulfuric Acid," T. A. Favor'skaya, A. N. Shirshova, Stud, Lab Imeni Acad A. Ye. Favor'skiy, Leningrad State Ord of Lenin U, 5 3/4 pp

"Zhur Opshch Khim" Vol XIX, No 1, pp. 177-82

During synthesis, keto alcohol of dimethylbenzoylcarbinol is reduced to dimethylbenzylcarbinol. Structure of the glycol is shown in its decomposition by heating with an alkaline solution.
58/49243

USSR/Chemistry - Synthesis (Contd) Jan 49
solution and oxidation by lead tetra-acetate.
Its interaction with 10 and 20% H₂SO₄ is studied.
Submitted 20 Dec 47.

58/49243

"APPROVED FOR RELEASE: 08/23/2000

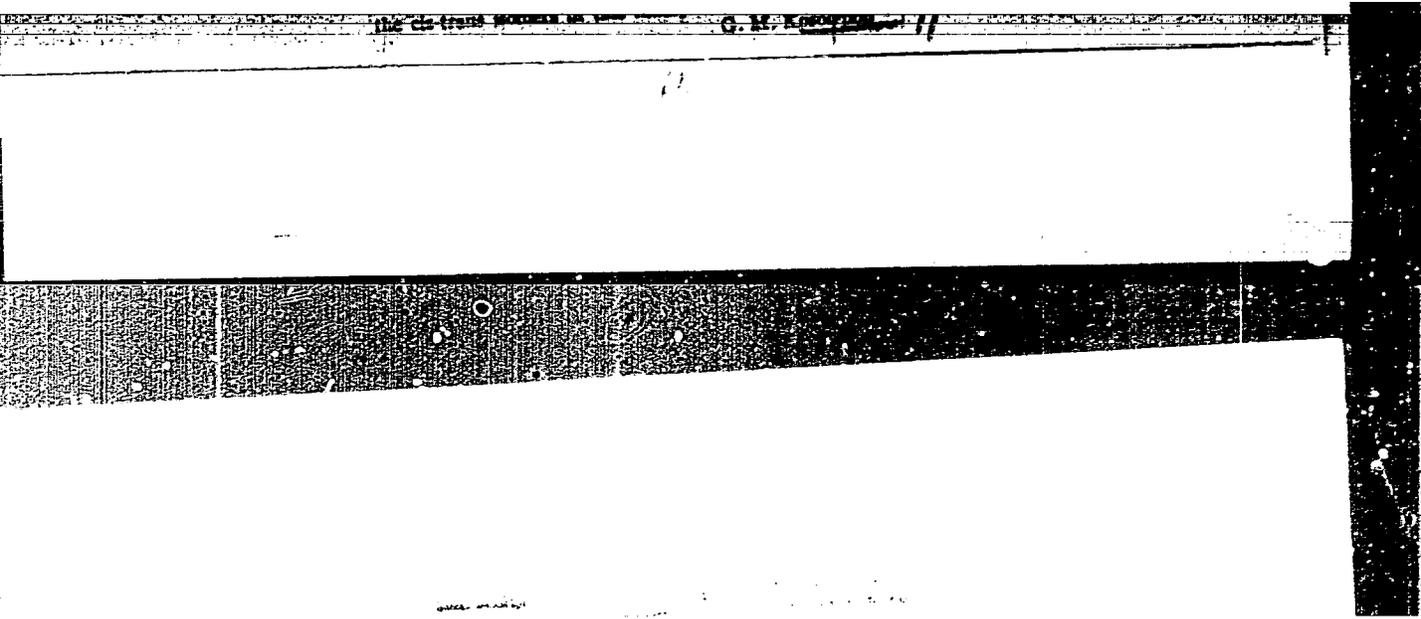
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CIA-RDP86-00513R001549530006-8"

KOZ'MINA, O.P.; SHIRSHOVA, A.N.

Effect of oxygen on the destruction of polymethyl methacrylate.
Zhur.prikl.khim. 30 no.12:1878-1879 D '57. (MIRA 11:1)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Oxygen) (Methacrylic acid)

BOCHKOV, Yu.N., inzh.; SHIRSHOVA, M.F., inzh.

Using the photomicrographic method for measuring < 0.06 millimeter
size coal particles. Obog.i brik. ugl. no.17:82-86 '61.

(MIRA 15:2)

(Coal, Pulverized--Analysis)

SHIRSHOVA, R., agrokhimik.

Tagged atoms. Tekh.mol.23 [i.e.24] no.7:8-9 J1 '56. (MLRA 9:9)
(Radioactive tracers) (Plants--Nutrition)

AUTHOR
TITLE

SHIRSHOVA, R.A.
The Atomic Pavillion of the All-Union Industry Exhibition (Department
for Agriculture and Biology.)
(V atomnom pavil'one Vsesoyuznoy promyshlennoy vystavki, Otdel sel'-
skogo khozyaystva i biologii-Russian)
Atomnaya Energiya, 1957, Vol 2, Nr 6, pp 566-568 (U S S R.)

PERIODICAL
ABSTRACT

This department shows the result of research work carried out concerning the biological effect produced by radiation upon the organisms of animals and plants. Furthermore, new problems were raised which are connected with the use of the method of marked atoms in agriculture, agrochemistry, physiology, and biochemistry of plants and animals. Thus it became possible only by means of the method of marked atoms to find out how much phosphorus a plant absorbs from the soil and from manure. This method facilitated a close study of the mineral nourishment of plants not passing through the plants' roots. In this manner it is possible also to determine the best manuring methods. The method of marked atoms is also a great help for those research workers who study the nature of the most important biochemical processes of agricultural production to which also belongs photosynthesis; the primary products include glyceric acid and phosphor-glycasic acid. Among the direct products of photosynthesis in the leaves of plants there are perhaps not only hydrocarbons but also albumens. The radioactive isotopes P³², C¹⁴ etc. can be used with success for the study of the motion and the exchange

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The Atomic Pavillion of the All-Union Industry Exhibition (Department for Agriculture and Biology).

of substances in plants. With the aid of C¹⁴ it was found that motional velocity of assimilates decreases with a reduction of temperature and in the case of lacking humidity. At different climatic conditions assimilates move in different parts of the plant. Furthermore, a completely new function of the root system was discovered with the help of C¹⁴, it absorbs carbonic acid from the soil and directs it to the leaves and other green parts of the plant.

Co⁶⁰, S³⁵, P³² and C¹⁴ are used for the study of metabolism in animal organisms. Thus, cancer cells have quite a different energy exchange than normal cells. Much attention is also devoted to the biological effect produced by radiation upon the organisms of animals and plants!

(7 illustrations).

ASSOCIATION Not Given.

PRESENTED BY

SUBMITTED

AVAILABLE

Card 2/2

Library of Congress.

UNITED STATES, P.

Peaceful Use of Atomic Energy Pavilion at the All-Union Agricultural Exhibition.

P. 18 (RUSK. IZVESTIJA KONTROLYRIS, Riga, Latvia Vol. 9, No. 7, July 1957)

See Monthly Index of Post European Accessions (ANMI) Vol. 6, No. 11 November 1957.

SHIRSHOVA, R.A.

Effect and aftereffect of the radioisotope strontium-90 on plants.
Dokl.AN SSSR 138 no.4:948-951 Je '61. (MIRA 14:5)

1. Predstavleno akademikom I.V.Tyurinym.
(Plants, Effect of radioactivity on) (Strontium—Isotopes)

SHIRSHOVA, R.A.

Relationship between potassium fertilizers and the intake of radioactive strontium by plants. Pochvovedenie no.3:36-43 Mr '62. (MIRA 15:7)

1. Pochvennyy institut imeni V.V. Dokuchayeva.
(Plants, Effect of potassium on): (Strontium)

ANDREYENKO, S.S.; SHIRKOVA, Y.D.

Changes in nitrogen metabolism of corn plants at a lowered suboptimal temperature in the root zone. Nauch.dokl.vys. shkoly; biol.nauki no.4:170-175 1955.

(MIRA 18:10)

1. Rekomendovana kafedroy fiziologii rasteniy Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

ANDREYENKO, S.S.; ALEKHINA, N.D.; SHIRSHOVA, Ye.D.

Effect of the pH of the medium on amino acid metabolism in
corn plants. Nauch. dokl. vys. shkoly; biol. nauki no.4:
152-156 '63. (MIRA 16:11)

1. Rekomendovana kafedroy fiziologii rasteniy Moskovskogo
gosudarstvennogo universiteta im. Lomonosova.

*

SHARAI, A.I.; SHIBUKAWA, Yu.M.

Combination of primary and metastatic cancer of the penis.
Vop.onk. 11 no.11:93-96 '65. (MIRA 1961)

1. Iz urologicheskoy kliniki (zav. - prof.I.P.Yogorelko
[deceased]) Tsentral'nogo instituta usovershenstvovaniya
vrachey na baze klinicheskoy ordena Lenina bol'nitsy imeni
S.P.Botkina (glavnyy vrach - dotsent Yu.G.Antonov).

НИКОЛАЕВА, Мариya Nikoloyevna

[Siberian pine plantations in the mountain forests of
Siberia] Kul'tury kedra sibirskogo v gorskikh lesakh
Sibiri. Moskva, Lesnaia promyshlennost', 1964. 98 p.
(MIRA 18:5)

: Foresty. Forest Cultures. K
 ABS. SOUR. : RZhBiol., No. 4, 1959, No. 15821
 AUTHOR : Chirskoy, M.N.
 INST. : Western Siberian Affiliate AS USSR
 TITLE : Experimental restoration of the
 Siberian cedar in the mountain-tail forests
 of Siberia.
 ORIG. PUB. : Tr. na lesn. kh-vy Zap. Sibiri. Zap.-Sib. fil.
 ANZOR, 1957, vyp. 3, 215-222
 ABSTRACT : The investigation on the development of ef-
 fective ways of the experimental restoration
 of the cedar was conducted on an average
 mountainous belt of the Western Ural in
 the forest territory of Yamalovsk. Lesn. k.
 The methods of stratification were tried out
 in the preparation of cedar seed for sowing,
 and all were positive results. The largest
 seeds were observed with stratification of A.
 G. Gerasimov's method with positive and nega-
 GARD: 1/3

DATE :
ABS. JOUR. : RZhBiol., No. 4, 1959, No. 15501
AUTHOR :
INST. :
TITLE :
ORIG. PUB. :
ABSTRACT : with every means applied to preserve the
strip-lings. The true moss types of pine plan-
tations with average moisture content were
favorable for sowing, and so were plantings
which had been ravaged by fires close to the
ground. A recommended technique is des-
cribed for the order sowing and for the cul-
tivation of seedlings in nurseries.
-- V.V. Protopopov
CARD: 5/5

L 11374-67 EWT(1) SCTB DD/GD

ACC NR: AT6036499

SOURCE CODE: UR/0000/66/000/000/0066/0068

AUTHOR: Bizin, Yu. P.; Gorban', G. M.; Zinov'yev, V. M.; Filipyuk, Z. I.;
Sidorov, K. K.; Solomin, G. I.; Shirskaya, V. A.; Yablochkin, V. D.

ORG: none

TITLE: Changes in several physiological indices of the organism in a gas medium formed by polymer decomposition [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 66-68

TOPIC TAGS: toxicology, polymer degradation, central nervous system, liver, closed ecological system, air pollution

ABSTRACT: The combined effect on animal organisms of the chemical substances formed by the degradation of some 14 polymers at temperatures in excess of 40° C was studied in a 25-day experiment.

Analysis of air from the chamber containing 80 laboratory animals showed the following: acrylonitrile, $2.8 \pm 1.7 \text{ mg/m}^3$; aldehydes, $0.02 \pm 0.01 \text{ mg/m}^3$; ammonia, $4.6 \pm 1.3 \text{ mg/m}^3$; acetone $1.07 \pm 0.6 \text{ mg/m}^3$; dibutylphthalate, $3.7 \pm 0.4 \text{ mg/m}^3$; sulphur dioxide, $1.77 \pm 0.8 \text{ mg/m}^3$; carbon monoxide,

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ACC NR: AT6036499

19.1 ± 1.3 mg/m³; hydrocarbons, 600 ± 218 mg/m³; hydrogen chloride, 2.46 ± 1.2 mg/m³; epichlorhydrine, 0.33 ± 0.08 mg/m³; ethyl acetate, 1.61 ± 0.6 mg/m³; and ethylene glycol, 0.7 ± 0.4 mg/m³.

Carbon dioxide content varied up to a maximum of 1%, oxygen content was 21%, and the relative humidity varied from 60 to 80%.

Blood studies conducted on the animals included erythrocyte count, leukocyte count, reticulocyte count, and hemoglobin determinations, as well as duration of bleeding, rate of coagulation, prothrombin time, thrombocyte count, and blood viscosity. Ability to synthesize hippuric from benzoic acid was taken as an index of the functional state of the liver.

In addition, observations were made of behavior and general conditions of the animals, dynamics of weight changes, tolerance to physical stress, and oxygen requirement. Relative weights of internal organs were determined.

The experimental animals were observed preceding, during, and for 14 days after the experiment.

Prolonged continuous exposure of the animals to the chemical substances liberated by the polymers produced nonspecific functional shifts.

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ACC NR: AT6036499

CNS effects included subcortical irritation and weakening of cortical subordination function. This resulted in intersection of extensor and flexor motor chronaxy curves, lowered susceptibility to brain stem hexanol narcosis, and increased tolerance to physical stress.

Peripheral blood studies showed increased erythrocyte, hemoglobin, and thrombocyte counts.

These CNS and peripheral blood shifts were unstable and nonspecific, and should be regarded as an adaptation reaction of the organism to the presence of gases released by polymer materials. This interpretation is supported by full restoration of the altered functions and indices to the initial state within 14 days after the end of the experiment.

It is concluded that the investigated polymers can be used in space cabins so long as the gases they liberate are scrubbed from the cabin air before they attain the maximum permissible concentration for small closed compartments.
[W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Card 3/3

RAGINSKIY, L.S.; SHIRSKIY, A.N.

Membraneless pneumatic pulsator for pulsed extraction columns.
Khim.prom. no.5:414-419 J1-Ag '60. (MIRA 13:9)
(Extraction apparatus)

МІХАЙЛОВА, Л.Я.; СЫТРО, П.К.; ДАВІДУ ШІРІ, П.А., канд. екон.
наук, соі.

[Tambov; an economic geography essay] Tambov; ekonomiko-
geograficheskii ocherk. Moskva, Geogr. ob-vo Sotruza nsh
pri IN SSSR, 1967. 121 p. (MIRA 17:9)

SHIRVATIS, A.I. [Sirvatis, A.]; DENIS, V.I. [Dionys, V.]; KAVETSKITE, M.V.
[Kaveckyte, M.]

Photoconductivity of polycrystalline cadmium sulfide and cadmium
selenide with the exposure to γ -rays. Liet ak darbai B no.2:47-59
'60. (EEAI 10:1)

1. Institut fiziki i matematiki Akademii nauk Litovskoy SSR
(Photoconductivity) (Cadmium sulfide)
(Cadmium selenide) (Gamma rays)

SHIRVAITIS, A.I. [Shirvaitis, A.]; DENIS, V.I. [Dienys, V.]; BRAZDZYUNAS,
P.P. [Brazdziunas, P.]

Photoconductivity and absorption of polycrystalline cadmium sulfide
and cadmium selenide in X-ray spectrum. Liet ak darbai B no.2:
33-46 '60. (EEAI 10:1)

1. Institut fiziki i matematiki Akademii nauk Litovskoy SSR
(Photoconductivity) (Absorption) (Cadmium sulfide)
(Cadmium selenide) (X rays) (Spectrum analysis)
(Cobalt) (Radioisotopes)

SIRVAITIS, A. P.

35117
S/058/62/000/002/039/053
A001/A101

24.7700 (1043,1055,1482)

26.2420

AUTHORS: Sirvaitis, A., Brazdžiūnas, P.

TITLE: Electric conductivity of polycrystalline CdS, CdSe and CdTe

PERIODICAL: Referativnyy zhurnal. Fizika, no. 2, 1962, 37. abstract 2E344 ("Uch. zap. Vil'nyussk. un-t. Matem., fiz.", 1960, v. 33, no. 9, 181-186, Lithuanian, Russian summary)

TEXT: The authors describe the results of investigating temperature dependences of electric conductivity and photoconductivity of CdS, CdSe and CdTe. The activation energy of photoresistances varies in a rather wide range. The curves of temperature dependence of electric conductivity for increasing and decreasing temperatures do not coincide. At the temperatures corresponding to the bends in the curves of electric conductivity, photoresistances of CdS and CdSe possess the maximum photosensitivity, and inertia of photocurrent sharply drops in both the visible and X-ray ranges of the spectrum. The spread in the values of activation energies and non-coincidence in the run of temperature curves of electric conductivity for increasing and decreasing temperatures can be explained by the presence of impurities. The sharp drop of photoconductivity

X

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S/058/62/000/002/039/053

AC01/A101

Electric conductivity ...

at a certain temperature is explained by Rouse's hypothesis (RZhFiz, 1956, no. 2, 4300), and inertia of photocurrent by impurity levels.

[Abstracter's note: Complete translation]

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ŠIRVAITIS, A. I.

38162

S/058/62/000/004/053/160
A058/A101

OL 2532

AUTHOR: Širvaitis, A.

TITLE: Structure and photoconductivity of polycrystalline CdS, CdSe and CdTe

PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 22, abstract 4G180
(Polikristaliniu CdS, CdSe ir CdTe struktura ir fotolaidimas
"Vilniaus univ. Mokslo darbai. Matem., fiz., Uch. zap. Vil'nyusk.
un-t. Matem., fiz.". 1960, v. 33, no. 9, 187-192, Lith.; Russian
summary)

TEXT: Polycrystalline photovaristors were prepared from CdS, CdSe and CdTe
activated with Cu or Ag in concentrations of 10^{-4} - 10^{-6} g/g. CdS and CdSe have
a hexagonal lattice, CdTe has a cubic lattice. Activation does not affect the
lattice constant; the conditions of preparing the photovaristors affect the
size of the microcrystallites. With their increasing size, the photovaristors
evidence decreasing sluggishness and approximation of their spectral photosensi-
tivity to that characteristic of monocrystalline photovaristors. The spectral
photosensitivity of CdS in the X-ray region resembles that of monocrystalline

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SHIRVANOV, A.G.

Problem of finding the Chebyshev point of a system of linear
inequalities. Izv. AN Azerb. SSR. Ser. fiz.-tekh. i mat. nauk
no.6:13-18 '64. (MIRA 18:6)

SHIRVANYAN, A.S.

The use of roll pass boxes. Metallurg no.4:37-38 Ap '56 (MLBA 9:9)

1. Nachal'nik sorteprekatnogo tsekha zavoda "Krasnyy Oktyabr".
(Rolling mills)

SHIRIANZADE I.H.

Conference on Metallogeny of the Caucasus (Soyuzmetallogenii Kavkaza)

Investiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958,
3, pp 124-127 (USSR)

An inter-departmental conference on metallogeny of the Caucasus, with representatives of geological organizations of the Transcaucasian republics, of Northern Caucasus, Moscow and Leningrad participating, was held by the Caucasian Institute of Raw Materials (KIMS) in May 1957. It was convened in connection with the work being done by a commission headed by Academician E.S. Shatskiy on the problem of "The Regularity of the Distribution of Valuable Minerals", as well as the compilation of a metallogenic map of the Caucasus of the scale 1:500,000. G.D. Levitskiy, Member-Correspondent of the USSR Academy of Sciences, and V.G. Grushevoy, Doctor of Geological-Mineralogical Sciences (VSEGEI), took part in the discussion. Three lectures were given on tectonics of the Caucasus: 1. by P.D. Gankrelidze, the Member-Correspondent of the Academy of Sciences of the Georgian SSR, on the tectonic structure of Georgia; 2. by E.Sh. Shikhalibeyli, Candidate

the Azerbaijan SSR, and 3. by A.T. Aslanyan, Candidate of Geological Sciences (Geological Administration of the Armenian SSR) - on the tectonic structure and metallogeny of Armenia. G.D. Arams'yev, Member-Correspondent of the USSR Academy of Sciences, Professor G.M. Zaridze (Georgian Polytechnical Institute); and Academician Sh.A. Aziabekov (Academy of Sciences of the Azerbaijan SSR); presented data on the magnetic rocks of different parts of the Caucasus.

Lectures on the metallogeny of different parts of the Caucasus were given by: G.A. Tvalchrelidze, Candidate of Geological-Mineralogical Sciences (KIMS), I.G. Magak'yan and S.S. Mirtchyan, Academicians of the Academy of Sciences of the Armenian SSR, A.B. Bendeliani, Professor of the Georgian Polytechnical Institute, N.A. Kashkay, Academician of the Academy of Sciences of the Azerbaijan SSR; and L.P. Inarokh, Candidate of Geological-Mineralogical Sciences (KIMS).

Lectures on separate questions of metallogeny of the Caucasus were given by: Professor G.D. Ashgirev (MGU) - on results of works of a Caucasian expedition of the MGU; Professor V.I. Smirnov (MGU) criticized the basic hypothesis of G. Massey

ABDULLAYEV, R.N.; AZIZBEKOV, Sh.A.; BAYRAMALIEVLI, E.T.; KASHKAY, M.A.;
KERIMOV, A.D.; KERIMOV, G.I.; MUSTAFABEYLI, M.A.; SITKOVSKIY, I.N.;
SHIRVANZADE, I.A.; SHIKHALIEVLI, E.Sh.; EFENDIYEV, G.Kh.

Principal metallogenetic characteristics of Azerbaijan [with summary
in English]. Sov. geol. 1 no.4:98-110 Ap '58. (MIRA 11:6)

1.Geologicheskii institut AN AzerSSR.
(Azerbaijan--Ore deposits)

SHIRVANZADE, I.A., kand. geol.-mineral. nauk

Out-of-town session of the Institute of Geology held in Duvanny.
Izv. AN Azerb. SSR. Ser. geol.-geog. nauk no. 3:150 '60.

(MIRA 13:10)

(Azerbaijan--Petroleum geology)

SHIRVAYTIS, A. I.

Cand Phys-Math Sci - (diss) "Photosensitivity of polycrystalline cadmium sulfide, cadmium selenide, and cadmium telluride when irradiated by X-rays and gamma-rays." Vil'nyus, 1961. 18 pp; (Ministry of Higher and Secondary Specialist Education USSR, Vil'nyus State Univ imeni V. Kapsukas); 250 copies; price not given; (KL, 7-61 sup, 221)

L 11921-66 EMI(m)/T/EWP(t)/EWP(b)/EWA(c) LJP(c) JD
ACC NR: AT5028698 SOURCE CODE: UR/2910/64/004/004/0551/0551770
38
31

AUTHOR: Shirvaytis, A. I. (Sirvaitis, A.); Alekseyunas, B. K. (Aleks-
junas, B.)

ORG: Vilnyus State University im. V. Kapsukas (Vil'nyusskiy Gosudars-
tvennyy universitet)

TITLE: Photosensitivity of ²¹Sb₂S₃¹⁷ single crystals to x rays
16

SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 4, no. 4, 1964,
551-557

TOPIC TAGS: antimony sulfide, photosensitivity, x ray measurement,
radiation dosimetry

ABSTRACT: The photosensitivity of Sb₂S₃ single crystals to x rays was
studied as a function of the growth conditions of the crystals, i. e.,
the vapor pressure of the more volatile component (sulfur). Also stud-
ied were the volt-ampere and dosimetric characteristics, inertia of the
photocurrent and stability of the photosensitivity. All the measure-
ments were made at room temperature. It was found that the photosensi-
tivity increases with sulfur vapor pressure at 0.10-0.95 mm Hg but does
not change statistically in the 12-395 mm Hg range. The volt-ampere

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ACC NR: AT5028698

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characteristics are linear or superlinear. The dosimetric characteristics are linear or sublinear. The photocurrent most frequently increases and decreases along a hyperbola. The photosensitivity is stable at a dose rate of 45 r/min and a field strength of $(105) 10^4$ V/m. The study showed that Sb_2S_3 single crystals can be successfully used in x-ray dosimetry. In conclusion, authors thank A. Karpus (Candidate of Physicomathematical Sciences) and V. Krishchunas (Senior Lecturer) for kindly supplying the Sb_2S_3 single crystals. Orig. art. has: 6 figures.

SUB CODE: 20/ SUBM DATE: 11Mar64/ ORIG REF: 006/ OTH REF: 003

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Card 2/2

SHIRVINT, N. P.

"Basic Problems of the Therapy of Acute Infections in Children," Pediatrics, No. 2,
1948; Docent., Moscow, -1948-.

SHIRVIN, D. G.

"Clinic-Pathological Characteristics of Acute Children's Infections, and Problems of Their Therapy," Sov. Med., No. 3, 1948. Dir, Infection Dept. Gen Pediatric Inst RSFSR, -c1948-.

"Scarlet Fever in Children." Thesis for Degree of
Dr. Medicine. Vol. 2. Jan 58, Moscow Medical Inst. Ministry of Health USSR

Summary 21, 1958. Dissertation Presented for Degree in Science and
Dr. Medicine. Moscow 1958. Dren Vachkovyaya Moskva. Jan-Mar. 1958

Diphtheria

"Diphtheria". D. D. Lebedev, A. I. Titova. Reviewed by B. G. Shirvindt.
Pediatria No. 4, 1952.

9. MONTHLY LIST OF RUSSIAN ACCESSIONS, Library of Congress, December 1952. Unc.

TALAYKO-KALASHNIKOVA, A.Z.; GUSEVA, A.V. zaveduyushchaya; BIRGER, O.G., nauchnyy rukovoditel'; PROKHOROVICH, Ye.V., glavnyy vrach; SHIRVINDT, B.G., zaveduyushchiy.

Experimental study of the diagnostic tellurite test. Zhur.mikrobiol.epid.i immun. no.4:25-28 Ap '53. (MLRA 6:6)

1. Tsentral'naya laboratoriya Klinicheskoy detskoy bol'nitsy (for Guseva and Birger, Talayko-Kalashnikova). 2. Klinicheskaya detskaya bol'nitsa (for Prokhorovich). 3. Infektsionnyy otdel Nauchno-issledovatel'skogo pediatricheskogo instituta Ministerstva zdravookhraneniya RSFSR (for Shirvindt, Talayko-Kalashnikova). (Diphtheria)

KAPLANSKIY, S.Ya.; OZERETSKOVSKAYA, N.Ye.; SHIRVINDT, B.G.

Use of methionine for the restoration of processes of nitrogen metabolism, which were disturbed in hypertrophy in young children. Vop.pit.12 no.6:21-27 N-D '53. (MLRA 6:12)

1. Iz laboratorii khimii tkaney (zaveduyushchiy - professor S.Ya.Kaplanskiy) Instituta biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR i Tsentral'nogo pediatricheskogo instituta Ministerstva zdravookhraneniya RSFSR (Moscow).

(Nitrogen--Assimilation and excretion) (Hypertrophy) (Methionine)

SHIRVINDT, B.G.

"Scarlet fever; etiology, pathogenesis, treatment and prophylaxis
by antibiotics." Reviewed by B.G. Shirvint. *Pediatrics* no.3:87-89
My-Je '55. (MLRA 8:100
(SCARLET FEVER) (ANTIBIOTICS)

SHIRVINDT, B.G.

Report of an interinstitutional conference on infectious in
Children. Vop.okh.mat. i det. 1 no.1:90-94 Ja-F '56. (MLRA 9:9)
(COMMUNICABLE DISEASES--PREVENTION)
(CHILDREN--DISEASES)

SHIRVINDT, B.G., professor

Some problems in the control of dysentery in children. Vop.okh.
mat. 1 det. 1 no.2:3-9 Mr-Apr '56. (MLRA 9:9)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo pediatricheskogo
instituta Ministerstva zdravookhraneniya RSFSR (dir. V.N.Karachev-
tseva) Moskva.

(DYSENTERY--PREVENTION) (CHILDREN--DISEASES)

SHIRVINDT, B.G.; DOBKINA, M.S.

Immunological changes in dysentery in children. *Pediatrics* 39 no.3:
12-20 My-Je '56. (MLRA 9:9)

1. Iz infektsionnogo otdela i immunologicheskoy laboratorii Pediatri-
cheskogo instituta (dir. - kandidat meditsinskikh nauk V.N.Karachev-
tseva) Ministerstva zdravookraneniya RSFSR.
(DYSENTERY) (IMMUNITY)

SHIRVINT, B.G.

[Problems in clinical aspects, pathogenesis, and treatment of acute infections in children] Voprosy kliniki, patogenezs i lecheniia ostrykh detskikh infektsii. Moskva, Medgiz, 1957. 216 p. (MIRA 11:4)
(CHILDREN--DISEASES)

SHIRVINDT, B.G., prof.

Sketch of the activity of honored scientist Professor A.A. Kisel',
Pediatriia 37 no.8:3-6 Ag '59. (MIRA 13:1)
(BIOGRAPHIES)
(PEDIATRICS)

SHIRVINDT, B.G.; RYABINSKAYA, T.P.; DOBKINA, M.S.; GOLUBEVA, I.V.;
AL'TGAUZEN, V.P.; WORDSHEYN, R.A.

Clinical picture and diagnosis of coli enteritis in children. *Pediatrics* 37 no.8:77-82 Ag '59.
(MIRA 13:1)

1. Iz Instituta pediatrii Ministerstva zdravookhraneniya RSFSR (dir. - A.P. Chernikova, zamestitel' direktora po nauchnoy chasti - prof. N.R. Shastin), Instituta imeni Mechnikova (dir. - A.P. Muzychenko) i 4-y gorodskoy klinicheskoy bol'nitsy (zaveduyushchiy infektsionnym otdeleniyem T.F. Yermolovich).
(ENTERITIS, etiology)
(ESCHERICHIA COLI INFECTIONS, in infancy & childhood)

SUKHAROVA, Mariya Yefimovna; SHIRVINDT, Boris Gustavovich

[Scarlet fever in children] Skarlatina u detei. Moskva,
Medgiz, 1960. 248 p. (MIRA 13:12)

(SCARLET FEVER)

KISEL', Aleksandr Andreyevich, prof., zasl.deyatel' nauki [deceased]; KISEL', V.A., sostavitel'-red.; HELYAYEVA, Ye.D., red.; BUENOVA, M.M., red.; VLASOVA, A.N., red.; GANYUSHINA, Ye.Kh., red.; GROMBAKH, S.M., red.; KONYUS, E.M., red.; KUDRYAVTSEVA, A.I., red.; MAYZEL', I.Ye., red.; MARKUZON, V.D., red.; MOSHKOVSKIY, Sh.D., red.; PELEVINA, M.P., red.; POKHITONOVA, M.P., red.; SAVVATIMSKAYA, N.P., red.; FRIDMAN, R.A., red.; SHIRVINDE, B.G., red.; EDEL'MAN, Z.I., red.; GAVERLAND, M.I., tekhn.red.

[Selected works. Jubilee edition on the 100th anniversary of his birth, 1859-1959] Izbrannye trudy. Iubileinoe izdanie k 100-letiiu so dnia rozhdeniia, 1859-1959 gg. Moskva, Gos.izd-vo med.lit-ry, 1960. 427 p.

(PEDIATRICS)

(MIRA 13:10)

POLTEVA, Yu.K.; PODVORCHANNAYA, N.I.; ZAYAGINTSEVA, S.G.; SHIRVINDT, B.G.

Dry dietetic sour milk. *Pediatrics* 38 no.10:81-82 0 '60.

(MILK, DIET)

(MIRA 13:11)

SHIRVINDT, B.G., prof.; RUDENSKAYA, I.N., kand.med.nauk

Steroid hormones in the treatment of acute infectious diseases in children; survey of the foreign literature. Vop. okh. mat. i det. 7 no.3:52-57 Mr '62. (MIRA 15:5)

(COMMUNICABLE DISEASES)

(STEROID HORMONES)

SHIRVINDT, B.G., prof.

Measles. Zdorov'e 8 no.9:20-21 S '62.
(MEASLES)

(MIRA 15:9)

SHIRVINDT, B.G., prof.

Problem of acute children's infections. Nauch.trudy Chetr.Mosk.
gor.klin.bol'. no.13:15-27 '61. (MIRA 16:2)
(CHILDREN--DISEASES)

SHIRVINDT, B.G., prof.; RYABINSKAYA, T.F.; DOEKINA, M.S.; NORDSHEYN, R.A.

Clinical characteristics of colienteritis and some immunological indices in its prevalence. Nauch.trudy Chetv.Mos.gor.klin.Bol'. no.1:28-39 '61. (MIRA 16:2)
(INTESTINES--DISEASES) (IMMUNITY) (ESCHERICHIA COLI)

AGABABOVA-SKOBELEVA, V.V., kand. med. nauk; DOBROKHOTOVA, A.I., prof. [deceased]; ZHUKOVSKIY, M.A., kand. med. nauk; LEEDEV, D.D., zasl. deyatel' nauki prof.; MARTINSON, Kh.S., kand. med. nauk; MOLCHANOV, V.I., prof.; NCSOV, S.D., prof.; SOBOLEVA, V.D., doktor med. nauk; SOLOV'YEV, V.D., prof.; SUKHAREVA, M.Ye., prof.; SHAPIRO, S.L., kand. med. nauk; SHERMAN, R.Z., doktor med. nauk; SHIRVINDT, B.G., prof.; DOMBROVSKAYA, Yu.F., otv. red.; POTAPOVA, I.N., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po pediatrii. Moskva, Medgiz. Vol.5. [Infectious diseases in children; aerial and droplet infections] Infektsionnye bolezni v detskom vozraste; vozdušno-kapel'nye infektsii. Red. toma S.D.Nosov. 1963. 547 p. (MIRA 16:6)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Skobeleva, Solov'yev). 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Dombrovskaya).

(PEDIATRICS) (COMMUNICABLE DISEASES)

SHIRVINT, B.G., prof.; PROTKLITOVA, N.S., kand. med. nauk

Scientific Session on Botkin's Disease at the Moscow Scientific
Research Pediatric Institute of the Ministry of Public Health of
the R.S.F.S.R. and the Pediatrics Problem Commission of the
Academic Medical Council of the R.S.F.S.R. Vop. okh. mat. i det.
8 no.7:89-92 JI '63. (MIRA 17:2)

ABEZGAUZ, A.b., prof.; BUBNOVA, M.M., prof.; GUREVICH, Ye.S., prof.;
ZHUKOVSKIY, M.A., st. nauchn. sotr.; KARYSHEVA, K.A., kand.
med. nauk [deceased]; MAZURIN, A.V., dots.; MOSOV, S.D.,
prof.; NISEVICH, N.I., prof.; RAYTS, M.M., prof.;
SOKOLOVA-PONOMAREVA, O.D.; STUDENIKIN, E.Ya., dots.;
TOKAREVICH, K.N., prof.; SHIRVINDT, B.G., prof.; DOMBROVSKAYA,
Yu.F., otv. red.; OSTROVERKHOV, G.Ye., prof., glav. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po
pediatrii. Moskva, Meditsina. Vol.6. [Infectious diseases in
children] Infektsionnye bolezni v detskom vozraste. 1964. 680 p.
(MIRA 17:7)

1. Deystvitel'nyy chlen AMN SSSR (for Dombrovskaya,
Sokolova-Ponomareva)

RISEVICH, Nina Ivanovna; SHIRWINDT, Boris Gustavovich; MATRIYEVA,
N.M., ed.
[Botkin's disease in children] Bolezn' botkina u de-
tei. Moskva, Meditsina, 1965. 230 p. (MIRA 18:2)

SHIRVITSKAS, Yu., mladshiy serzhant

The force of a soldier is in ideology. Komm. Vooruzh. Sil. 46
no. 21:61-63 N '65 (MIRA 19:1)

SHIRVINSKAYA, A.I.

Studies on type-specific immunity in leptospirosis under experimental conditions. Zhur.mikrobiol.epid.i immun. 30 no.10:33-37 0 '59.

(MIRA 13:2)

1. Iz Moskovskogo instituta vaktsin i syvorotok imeni Mechnikova.
(LEPTOSPIROSIS immunol.)
(IMMUNE SERUMS)

SHIRVINSKAYA, A. I. Cand Med Sci -- "Study of ~~the~~ type specificity of immunity in experimental leptospirosis." Mos, 1961 (1st Mos State Order of Lenin Med Inst im I. M. Sechenov). (KL, 4-61, 212)

-394-

SHIRVINSKAYA, A.I.; PEROVA, K.S.

Young rabbits as a laboratory model for leptospirosis. Lab. delo
7 no.1:39-41 Ja '61. (MIRA 14:1)

1. Laboratoriya leptospirozov (zav. - prof. A.A. Varfolomeyeva)
Moskovskogo instituta vaktsin i syvorotok imeni I.I. Mechnikova.
(LEPTOSPIROSIS) (RABBITS AS LABORATORY ANIMALS)

SHIRVINSKAYA, A.I.

Antigenic structure of icterohemorrhagic strains of Leptospirae
found in the USSR. Zhur.mikrobiol., epid.i immun. 33 no.8:84-89
Ag '62. (MIRA 15:10)

1. Iz Moskovskogo instituta vaktsin i syvorotok imeni Mechnikova.
(LEPTOSPIRA)

TOROPOV, N.A.; SHIRVINSKAYA, A.K.

Interaction of calcium germanates with water at room temperature.
Zhur. prikl. khim. 36 no.4:717-724 Ap '63. (MIRA 16:7)

(Calcium germanates)

(Hydration)

TOROPOV, N.A.; SHIRVINSKAYA, A.K.

Solid solutions in the system Ca SiO₃ - Ca GeO₃. Dokl. AN SSSR
153 no.5:1081-1084 D '63. (MIRA 17:1)

1. Institut khimii silikatov im. I.V. Grebenshchikova
AN SSSR. 2. Chlen-korrespondent AN SSSR (for Toropov).

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S/186/61/003/001/001/020
A051/A129

AUTORS: Udovenko, V.M., Koval'skaya, M.P., Shirvinskiy, Ye/V.

TITLE: Thorium extraction from sulfate solutions using octylamine

PERIODICAL: Radiokhimiya, v 3, no. 1, 1961, 3-6

TEXT: The use of amine-salts as extracting agents is more advantageous than ion-exchanging resins. The purpose of the authors' investigations was to determine the possibility of extracting thorium from acidic sulfate solutions using primary amines, and to investigate the composition of the extracted compound. During the extraction the neutralization of the amine by sulfuric acid takes place according to the equation: $2RNH_2 + H_2SO_4 \rightarrow (RNH_3)_2SO_4$ and its salt is distributed between the water and organic phases. Table 1 shows the results of experiments on the relationship of this distribution to the concentration of the sulfuric acid in the water phase. It is seen that with an increase in the concentration, there is a certain tendency toward an increase in the solubility of the amine-salt. The effect of concentration of

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Thorium extraction from sulfate solutions...

the sulfuric acid and the nature of the solvent on the extraction of micro-quantities of thorium from aqueous solutions with a primary amine was further investigated and the results are shown in Fig.1. It is noted that the distribution coefficient of UX₁ decreases with an increase in the sulfuric acid concentration, and the nature of this relationship is maintained for all three diluents investigated (chloroform, carbon tetrachloride, benzene). The highest extraction of UX₁ is observed when using chloroform. The extraction of thorium from sulfuric acid solutions is expressed by the following formula: $Th^{4+}_{aq} + 2SO_4^{2-}_{aq} + n(RNH_3)_2SO_4_{aq} \xrightleftharpoons{K} n(RNH_3)_2SO_4 \cdot Th(SO_4)_2$ (3), where n is the number of amino sulfate molecules bound with one molecule of thorium sulfate, thus,

$$K = \frac{[n(RNH_3)_2SO_4 \cdot Th(SO_4)_2]}{[Th^{4+}] \cdot [SO_4^{2-}]^2 \cdot [(RNH_3)_2SO_4]^n} \quad (4).$$

$$\alpha = \frac{[n(RNH_3)_2SO_4 \cdot Th(SO_4)_2]}{[Th^{4+}]} \quad (5), \text{ then}$$

replacing α in equation (4),

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Thorium extraction from sulfate solutions...

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$$K = \alpha \frac{1}{[(\text{RNH}_3)_2\text{SO}_4]^n \text{SO}_4^{2-}]^2} \quad (6),$$

and $\alpha = K_1 [(\text{RNH}_3)_2\text{SO}_4]^n$. If the log of equation (6) is taken, then $\lg \alpha \approx$

$\lg K_1 + n \lg [(\text{RNH}_3)_2\text{SO}_4]$; $n \approx \frac{\lg K}{\lg [(\text{RNH}_3)_2\text{SO}_4]}$. The experimental data on the study

of the effect of the amine concentration on the distribution coefficient of thorium revealed the value of n graphically (i.e., the number of moles of the amine-salt to 1 mole of thorium) for the case of macro- and microquantities extractions of thorium (Figs.2,3). Table 2 shows the experimental data obtained. From these data it is seen that with a change in the concentration of the amine, the ratio between the thorium and sulfate ion in the organic phase actually remains constant and equal to 1:4. The authors draw the following conclusions: 1) it is shown that octylamine sulfate can hardly be extracted with chloroform; 2) it is established that an increase in the sulfuric acid concentration in the aqueous phase brings about a sharp

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Thorium extraction from sulfate solutions...

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drop in the thorium distribution coefficient; 3) the existence of a proportionality between the thorium distribution coefficient and amine concentration in the organic phase is proven; two molecules of amine sulfate pass into the organic phase with one molecule of thorium sulfate; 4) a determination is made of the shape of the extracted complex compound $(C_8H_{17}NH_3)_4Th(SO_4)_4$. There are 2 tables, 3 graphs and 8 references: 3 Soviet-bloc, 5 non-Soviet-bloc.

Table 1:

$C_{H_2SO_4}$ (in M)	Content of amine salt in chloroform (in %)
0.11	0.01
0.22	0.01
0.68	0.01
1.20	0.01
1.83	0.02
3.20	0.03
4.45	0.05

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VDOVENKO, V.M.; LAZAREV, I.H.; SHIRVINSKIY, Ye.V.

Study of thermodynamic characteristics of the system $\text{HF} - \text{HNO}_3 - \text{H}_2\text{O}$.
Part 1: Measurement of vapor pressure of components of systems
 $\text{HF} - \text{H}_2\text{O}$ and $\text{HF} - \text{HNO}_3 - \text{H}_2\text{O}$. Radiokhimiya 7 no.1:46-48 '65.
(MIRA 18:6)

... ..
... ..
... ..

Thermodynamic characteristics of the system $\text{HF} - \text{HNO}_3 - \text{H}_2\text{O}$.
part 2: Calculation of activity of components in the system
 $\text{HF} - \text{HNO}_3 - \text{H}_2\text{O}$. Radiokhimiya 7 no.2:151-159 '65.

(MIRA 12.1)

SHIRAZI, F. F.

Work practice of public breeder F.T. Golosheev. Moscow, Gos. izd-vo sel'skoy lit-
ry, 1954. 41 p. (Peredovoi opyt v sel'skoy kooperatsii)

SHURYAK, E. A.

"Professor L. I. Shultko," Khirurgiya, No. 4, 1948.

SHIYAK, E. A.

21055 Shiyak, E.A. K voprosu o Khronicheskom ognestrel'nom osteomyelite Trudy In-ta
(Kazansk. Nauch-issled in-t ortopedii i vosstanovit Khirurgii) t.111, 1949, s. 96-107.

SO: LETO IS JURNAL STAREY - Vol. 28, Moskva, 1949

SHIRYAK, E. A.

Yeselevich, A. Ya., Shiryak, E.A., i Aristovskaya, L.M. Lecheniye infitsirovannykh Ran chudesnoy palochkoy Trudy In-ta [Kazansk Nauch-issled in-t ortopedii i vosstanovit Kirurgii) t.111, 1949, s. 206-19.

SO: LETOPIS ZHURNAL STATEY- Vol. 28, Moskva, 1949

SHIRYAK, S.A. (Kazan').

In memory of V.V.Gorinevskaia. Sov.med.18 no.1:45 Ja '54.

(MLRA 7:1)

(Gorinevskaia, Valentina Valentinovna, 1882-1953)

SHIRYAK, E.A., kand.med.nauk (Kazan')

Letter to the editor. Ortop., travm. i protez. 20 no.5:79-80
Ky '59. (MIRA 12:9)

(FRACTURES)

VAL'NEVA, Ye.S.; SHIRYAK, E.Ye.

Some results of the compound treatment of patients in the
recovery period of poliomyelitis. Kaz. med. zhur. 488-49 JI-Ag'63
(MIRA 17:2)

1. Kazanskiy detskiy sanatoriy etapnogo lecheniya poliomyelita
(glavnyy vrach - K.K.Botalova, nauchnyy rukovoditel' - prof.
L.I.Shulutko).

SHIRYAK, F.M.

Case of synarthrosis of the transverse processes of the third and fourth lumbar vertebrae. Ortop. travm. i protez, 21 no. 7:73-74
Jl '60. (MIRA 13:10)

1. Iz khirurgicheskogo otdeleniya Pyatigorskoy kurortnoy
polikliniki (glavnyy vrach - G.V. Mikhaylenko).
(SPINE--DISEASES)

SHIRYAK, F.M. (Pyatigorsk, ul. Rozhanskogo, 9, kv.7)

Case of bilateral congenital osseous syndactylia of the
fourth and fifth metacarpal bones. Arkh. anat. gist. 1
embr. 41 no.8:70-71 Ag '61. (MIRA 15:6)

1. Pyatigorskaya kurortnaya poliklinika (glavnyy vrach G.V.
Mikhaylenko).

(HAND--ABNORMITIES AND DEFORMITIES)

SHIRYAK, F. M.

Case of bilateral tabetic osteoarthropathy of the coxofemoral joint.
Ortop., travm. i protez. no.1:82-84 '62. (MIRA 15:2)

1. Iz khirurgicheskogo otdeleniya Fyatigorskoy kurortnoy poli-
kliniki (glavnyy vrach - G. V. Mikhaylenko)

(LOCOMOTOR ATAXIA) (HIP JOINT--DISEASES)

SHIRYAK, F.M. (Pyatigorsk, ul. Rozhanskogo, d.9, kv.7)

Case of Pfaundler-Hurler syndrome. Ortop., travm.i protez.
no.4:80-82 '62.

(MIRA 15:5)

1. Iz khirurgicheskogo otdeleniya Pyatigorskoy kurortnoy poli-
kliniki (glavnyy vrach - G.V. Mikhaylenko).
(LIPOCHONDRODYSTROPHY)

SHIRYAK, F.M.; GESELEVA, M.M.

Treatment of postphlebitic patients with carbon dioxide hydrogen sulfide baths in the health resort of Pyatigorsk. Vrach. delo no.4:148-149 Ap'63. (MIRA 16:7)

1. Khirurgicheskoye otdeleniye Pyatigorskoy kurortnoy polikliniki; nauchnyy rukovoditel' - prof. A.F.Verbov. (PHLEBITIS) (PIATIGOSK)

SHIRYAK, F.M.

Madelung's deformity diagnosed as polyarthrits. Vop. revm.
3 no.3:78-79 JI-S'63 (MIRA 17:3)

1. Iz Pyatigorskoy kurortnoy polikliniki (glavnyy vrach S.I.
Balayants).

GORDZHELADZE, M.A.; SHIRYAK, M.E.

Prolapse of the rectum with rupture of its walls and the evertion
of four meters of the small intestine. Khirurgiia Supplement:49
'57. (MIRA 11:4)

1. Iz Mariyskogo respublikanskogo gospiatalya invalidov Velikoy
Otechestvennoy voyny.

(UTERUS--WOUNDS AND INJURIES)

(INTESTINES--WOUNDS AND INJURIES)

SHULUTKO, M.L. kand.med.nauk; SHIRYAK, M.I.

Conservative partial resection of the lung in the treatment of tuberculosis. Probl.tub. 37 no.4:50-52 '59. (MIRA 12:10)

1. Iz legochno-khirurgicheskogo otdeleniya (zav. M.L.Shulutko, nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR, zasluzhennyy deyatel' nauki prof.A.T.Lidskiy) Sverdlovskogo detskogo tuberkuleznogo sanatoriya No.1 (glavnyy vrach Ye.A.Korol').

(TUBERCULOSIS, PULMONARY, surg.

conservative partial resection (Rus))

BEZGINOV, I.P., professor-prepodavatel', polkovnik.; VELYUGO, V.M., professor-prepodavatel', polkovnik.; GERASIMOV, A.I., professor-polkovnik, polkovnik.; LEBEDEV, A.I., professor-prepodavatel', polkovnik.; MILYUTENKOV, D.M., professor-prepodavatel', polkovnik.; PROKHOROV, I.I., professor-prepodavatel', polkovnik.; SHKACHEV, V.I., professor-prepodavatel', polkovnik.; SOROKIN, V.N., professor-prepodavatel', polkovnik.; UKHOV, N.E., professor-prepodavatel', polkovnik.; FEDOTOV, B.I., professor-prepodavatel', polkovnik.; SHIRYAKIN, N.V., professor-prepodavatel', polkovnik.; SHMOLEV, M.S., professor-prepodavatel', polkovnik.; ANISIMOV, N.I., professor-prepodavatel', polkovnik.; BULATOV, A.A., professor-prepodavatel', podpolkovnik.; SIDORENKO, A.A., professor-prepodavatel', podpolkovnik.; SHKODUNOVICH, N.N., general-leytenant, glavnyy red.; BANNIKOV, M.K., polkovnik, red.; DAVYDOV, F.M., polkovnik, red.; LOZOVY-SHEVCHENKO, V.M., general-mayor-aviatsii, red.; SHIPOVA, B.V., polkovnik, red.; MOROZOV, B.N., polkovnik, red.; VOLKOVA, V.E., tekhn. red.

[Concise dictionary of operational-tactical and general military terms] Kratkii slovar' operativno-takticheskikh i obshchevoennykh slov (terminov). Moskva, Voenn. izd-vo M-va obor. SSSR, 1958. 323 p. (MIRA 11:11)

1. Moscow. Voennoy akademii imeni M.V. Frunze. 2. Krasnoznamennoye ordena Lenina i ordena Suvorova 1-y stepeni Voennoy akademii imeni M.V. Frunze (for all except Shkodunovich, Bannikov, Davydov, Lozovoy-Shevchenko, Shipova, Morozov, Volkova).
(Military art and science--Dictionaries)

SHIRYAKOV, Aleksandr Aleksandrovich; MOSOV, F.V., doktor istor.nauk,
red.; OZEROV, V.S., red.; POL'SKAYA, R.G., tekhn.red.

[Period of the large-scale building of communism] Period razvernuto-
togo stroitel'stva kommunizma. Pod obshchei red. F.V.Nosova.
Leningrad, Lenizdat, 1960. 32 p. (MIRA 14:3)
(Russia--Economic conditions) (Russia--Industries)

SHIRYAMOV, M., kapitan 1-go ranga

Atomic boom of French monopolies. Komm. Vooruzh. Sil 4 no.11:
75-79 Je '64. (MIRA 17:9)

L 11963-66 EWT(m)/T/EWP(t)/EWP(b) LJP(c) - JD/JG
ACC NR: AP5026589 SOURCE CODE: UR/0056/65/049/004/1028/1030

AUTHORS: Nikitin, L. P.⁵⁵; Kogan, A. V.⁵⁵; Kul'kov, V. D.⁵⁵; Shirypov, I. P.⁵⁵ 86
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ORG: Physicotechnical Institute im. A. F. Ioffe, Academy of Sciences SSSR (Fiziko-tehnicheskii institut im. A. F. Ioffe Akademii nauk SSSR)

TITLE: Nuclear specific heat of FeV alloys

SOURCE: Zhurnal eksperimental'noy teoreticheskoy fiziki, v. 49, no. 4, 1965, 1028-1030

TOPIC TAGS: iron alloy, vanadium, specific heat, magnetic moment

ABSTRACT: To determine the hyperfine interaction field acting on the nuclei of vanadium in an iron matrix, the authors measured the nuclear specific heat of iron-vanadium alloys having vanadium concentrations 4.4 and 13.8 atomic per cent. The samples were prepared by melting in an electromagnetic crucible. The specific heat of the alloy was measured in the temperature range 0.03 -- 0.15K by comparison with the specific heat of the cooling salt, the latter being determined experimentally using a control alloy sample of known specific heat. The experimental technique was described by the authors earlier (ZhETF v. 45, 1, 1963), but the apparatus used to measure the nuclear specific heat

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ACC NR: AP5026589

was somewhat modified by using pulsed heating instead of audio-frequency heating. The value obtained for the effective field acting on the vanadium nucleus in the alloy with the 4.4 and 13.8 per cent vanadium was 78 ± 7 and 58 ± 4 kOe, respectively. The observed strong dependence of the field on the composition of the alloy is accounted for by means of a simple model, in which the free vanadium atom has three electrons in the unfilled 3d shell and two electrons in the 4s shell. Replacement of a single iron atom by a vanadium atom in the alloy reduces the magnetic moment by 3.2 Bohr magnetons. The localized moment of the vanadium atom in the alloy is estimated to be -0.4 Bohr magnetons. Authors thank Z. V. Guts and L. M. Bugayeva for the preparation and heat treatment of alloys. Orig. art. has: 1 figure and 1 formula.

SUB CODE: 20/ SUBM DATE: 15Apr65/ NR REF SOV: 003/ OTH REF: 008

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SHIRYAYEV, A., inzhener.

Measuring ruler. Stroitel' no.3:12 Mr '57.
(Measuring instruments)

(MLRA 10:4)

SHIRYAYEV, A.

Single technological process in harbor and station operations. Rech.
transp. 22 no.6:11-12 Je '63. (MIRA 16:9)

1. Nachal'nik pravoberezhnogo uchastka Novosibirskogo porta.
(Transportation) (Cargo handling)

SHIRYAYEV, A. (Moskva)

Not a single kilogram should be lost. Sov. profsoiuzy 19
no.21:22-23 N 163. (MIRA 17:1)